

**SECRET**Contract   
Monthly Report

25X1

DDR-Dupe

PAR 249

31 Oct 68

SUBJECT:  Precision Enlarger Prototype (BPE) Operational  
Improvements and Maintenance

25X1

## TASK/PROBLEM

1. Provide photographic enlarger maintenance at the customer's facility for one  Precision Enlarger (BPE) and three 10-20-40X Enlargers.

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## DISCUSSION

2. Contractor personnel visited the customer's facility during the week of 28 October 1968. The purpose of the visit was to perform the one-month preventive maintenance check on the BPE, and the two-month preventive maintenance check on the four 10-20-40X Enlargers. (See check list indicating the work performed.)

3. During the BPE maintenance check referred to above, the non-steering rollers (P/N 1-023-E-405 and -406) were found to be defective. Replacement rollers were sent by the contractor, installed, and subsequent tracking tests indicated that performance was satisfactory.

4. During the check on the four 10-20-40X Enlargers, the customer described a fluid bubble problem observed after customer personnel had ground the film plane condenser lenses (P/N AL-1160-250) to remove scratches. The customer has requested a price quotation for four of these lenses, as replacements. It was also noted during this check that the gear (P/N AL-1160-171) on the Y-coordinate counter of Enlarger S/N 123 was not pinned to the counter shaft.

## PLANNED ACTIVITY

5. During the next trip to the customer's facility currently scheduled for 3 December 1968, accomplish the following:

a. Pin the Y-coordinate counter gear to the counter shaft of 10-20-40X Enlarger S/N 123.

b. Perform monthly preventive maintenance on the BPE and the four 10-20-40X Enlargers.

**SECRET**

<b>GROUP 1</b> EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION
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**SECRET****PREVENTIVE MAINTENANCE SCHEDULE CHECK LIST**

PRECISION ENLARGER

PAR 249

31 Oct 68<sup>5X1</sup>Assigned to: B-213 Date 10/31/68 Machine Serial No. 

25X1

✓	Item	Description
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**Daily Interval**

1	Check the four indicator lamps on the sub-control panel.
2.1	Check closed-negative-gate interlock.
2.2	Check interlock that causes vertical transport slow speed.
2.3	Check interlock that disables negative transport after fluid injection.
2.4	Check operation of microswitch that functions when manual-film-movement knob is pushed in.
3.1	Check the indicator lamps for the two attenuator banks of the easel photometer.
3.2	Check the meter scale illuminator lamp of the easel photometer.
3.3	Check the antifatigue lamp in photo-multiplier tube housing.
4	Clean the glass plates of the negative gate.

**One-Week Interval**

✓ 1	Wipe <del>vacuum clean</del> the enlarger. down.
✓ 2	Check, and if necessary, clean the objective lenses and all glass filters.
✓ 3	Wash <del>vacuum clean</del> the front surface of the easel.
✓ 4	Check the fiber optics for broken fibers.

✓	Item	Description
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**One-Month Interval**

✓ 1	Wax the steel rails of the lens ramp and of the easel.
✓ 2	Install new air filter in lamphouse.
✓ 3	Clean the nylon brushes of the fluid removal system.
✓ 4	Check all tubing and hoses for cracks and air leakage.
✓ 5	Check and, if necessary, clean the lenses of the condenser lens assemblies.

**Six-Month Interval**

1.1	Make a photographic check on all six matching sets of objective and condenser lens assemblies.
1.2	Be sure that film is tracking properly in both directions on the negative transport system.
2	Check the timing belts of the film transport system, of the vertical drive system, and of the easel drive assembly for wear.

**REMARKS:**

1. Replaced Lamphouse Platen Assembly 1-023-C-330.
2. Installed Vertical Drive Limit Switches. Checked out OK.
3. Sealed all Lens Barrel Assemblies with R.T.V.
4. BPE needs washer 2-023-A-627 (item 114, Dwg. 1-023-E-002, Negative Transport System).
5. Delivered 25 bulbs for Decitrak Reader (green base).
6. Replaced non-steering rolls, 1-023-E-405 and 406.
7. Adjusted fluid pumps.

Checked by Date 10/31/68

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2/68

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